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CO2 Conversion to Methanol

Lead Proponent: Quantiam Technologies Inc.

Location: Edmonton, AB

CEI Contribution: \$ 500,000

Project Total: \$ 1,393,412

Strategic Area: Carbon Capture, Use and Storage

Project Objectives:

The overall objective of this project is to complete the technology development and prototyping of a CO₂ to Methanol technology project, and to demonstrate the technology at a "lab-scale pilot" level.

The lab-scale pilot constitutes a lower risk, lower cost alternative to a "Facility Pilot". A subset of critical process variables will be scaled to 10-100X in a more 'realistic' and process-relevant environment in order to validate the catalyst and process technology. The project's ultimate goal is the carbon negative conversion of captured CO₂ emissions to produce methanol at industrial scales.

Expected Results:

It is expected that this technology will replace syngas-to-methanol, due to it being less dependant on fossil fuel feedstocks, therefore, emitting less CO₂.

The CO₂ Conversion to Methanol project will support training in the Cleantech sector, and when deployed will generate Cleantech jobs for Canadians.

Project Partners:

Tier-1 Chemical/Petrochemical company

Find out more:

[Quantiam Technologies Inc.](#)

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